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APPLICATION NO.	FILING DATE	FIRST NAMED INVENTOR	ATTORNEY DOCKET NO.	CONFIRMATION NO.
10/734,280	12/15/2003	Lin Lin	38898-0054	1770
7590 Mr. William B. Vass c/o Ridout & Maybee LLP Suite 2400 One Queen Street East Toronto, ON M5C 3B1 CANADA		01/10/2007	EXAMINER CHOI, WOO H	
			ART UNIT 2189	PAPER NUMBER
SHORTENED STATUTORY PERIOD OF RESPONSE		MAIL DATE	DELIVERY MODE	
3 MONTHS		01/10/2007	PAPER	

Please find below and/or attached an Office communication concerning this application or proceeding.

If NO period for reply is specified above, the maximum statutory period will apply and will expire 6 MONTHS from the mailing date of this communication.

Office Action Summary	Application No.	Applicant(s)
	10/734,280	LIN ET AL.
	Examiner Woo H. Choi	Art Unit 2189

-- The MAILING DATE of this communication appears on the cover sheet with the correspondence address --
Period for Reply

A SHORTENED STATUTORY PERIOD FOR REPLY IS SET TO EXPIRE 3 MONTH(S) OR THIRTY (30) DAYS, WHICHEVER IS LONGER, FROM THE MAILING DATE OF THIS COMMUNICATION.

- Extensions of time may be available under the provisions of 37 CFR 1.136(a). In no event, however, may a reply be timely filed after SIX (6) MONTHS from the mailing date of this communication.
- If NO period for reply is specified above, the maximum statutory period will apply and will expire SIX (6) MONTHS from the mailing date of this communication.
- Failure to reply within the set or extended period for reply will, by statute, cause the application to become ABANDONED (35 U.S.C. § 133). Any reply received by the Office later than three months after the mailing date of this communication, even if timely filed, may reduce any earned patent term adjustment. See 37 CFR 1.704(b).

Status

- 1) Responsive to communication(s) filed on 20 October 2006.
- 2a) This action is FINAL. 2b) This action is non-final.
- 3) Since this application is in condition for allowance except for formal matters, prosecution as to the merits is closed in accordance with the practice under *Ex parte Quayle*, 1935 C.D. 11, 453 O.G. 213.

Disposition of Claims

- 4) Claim(s) 1-20 is/are pending in the application.
- 4a) Of the above claim(s) 9,10 and 17-20 is/are withdrawn from consideration.
- 5) Claim(s) _____ is/are allowed.
- 6) Claim(s) 1-8 and 11-16 is/are rejected.
- 7) Claim(s) _____ is/are objected to.
- 8) Claim(s) _____ are subject to restriction and/or election requirement.

Application Papers

- 9) The specification is objected to by the Examiner.
- 10) The drawing(s) filed on _____ is/are: a) accepted or b) objected to by the Examiner.
 Applicant may not request that any objection to the drawing(s) be held in abeyance. See 37 CFR 1.85(a).
 Replacement drawing sheet(s) including the correction is required if the drawing(s) is objected to. See 37 CFR 1.121(d).
- 11) The oath or declaration is objected to by the Examiner. Note the attached Office Action or form PTO-152.

Priority under 35 U.S.C. § 119

- 12) Acknowledgment is made of a claim for foreign priority under 35 U.S.C. § 119(a)-(d) or (f).
 - a) All b) Some * c) None of:
 1. Certified copies of the priority documents have been received.
 2. Certified copies of the priority documents have been received in Application No. _____.
 3. Copies of the certified copies of the priority documents have been received in this National Stage application from the International Bureau (PCT Rule 17.2(a)).

* See the attached detailed Office action for a list of the certified copies not received.

Attachment(s)

- 1) Notice of References Cited (PTO-892)
- 2) Notice of Draftsperson's Patent Drawing Review (PTO-948)
- 3) Information Disclosure Statement(s) (PTO-1449 or PTO/SB/08)
 Paper No(s)/Mail Date _____
- 4) Interview Summary (PTO-413)
 Paper No(s)/Mail Date. _____
- 5) Notice of Informal Patent Application (PTO-152)
- 6) Other: _____

DETAILED ACTION

Claim Rejections - 35 USC § 102

1. The following is a quotation of the appropriate paragraphs of 35 U.S.C. 102 that form the basis for the rejections under this section made in this Office action:

A person shall be entitled to a patent unless –

(b) the invention was patented or described in a printed publication in this or a foreign country or in public use or on sale in this country, more than one year prior to the date of application for patent in the United States.

(e) the invention was described in (1) an application for patent, published under section 122(b), by another filed in the United States before the invention by the applicant for patent or (2) a patent granted on an application for patent by another filed in the United States before the invention by the applicant for patent, except that an international application filed under the treaty defined in section 351(a) shall have the effects for purposes of this subsection of an application filed in the United States only if the international application designated the United States and was published under Article 21(2) of such treaty in the English language.

2. Claims 1 – 8 and 11 - 16 are rejected under 35 U.S.C. 102(e) as being anticipated by Parker (US Patent No. 6,535,949).

3. With respect to claims 1, 4, 5, 11 and 14, Parker discloses a memory device (figure 1, 24) for storing data, said data including metadata, said memory device comprising:

a static volume comprising a plurality of static blocks (col. 11, lines 7 – 17, logs, or alternatively data item, see figure 4 and col. 8, 21 – 27, 58 – 67) and each of said static blocks comprising a plurality of sectors (figure 3, a flash erase block comprise multiple sectors);

a dynamic volume comprising a plurality of dynamic blocks (col. 11, lines 7 – 17), and each of said dynamic blocks comprising a plurality of sectors (figure 3,);

each of said dynamic blocks having one of said sectors allocated for writing and reading metadata (figure 4, 56, a sector containing a version number), and said remaining sectors in said dynamic block being available for writing and reading data; and

each of said static blocks having one or more sectors for writing and reading metadata (56), said remaining sectors in said static block being available for writing and reading data, wherein each of said sectors comprises a minimum writable portion of said memory device and each of said blocks comprises a minimum erasable portion of said memory device (minimum writable and erasable portion of any binary device is a bit).

4. With respect to claims 2, 3, 6, 7, 12, 13, 15 and 16, erasability and movability of flash memory blocks are inherent features of flash memories and are also explicitly disclosed by Parker (col. 10, lines 45 – 49).

Response to Arguments

5. Applicant's arguments filed October 20, 2006, have been fully considered but they are not persuasive. The amended language of the claims does not affect the scope of the claims at all, because the minimum writable/erasable portion of any storage device is the smallest unit of data, which in this case is a bit. The Examiner suggests that Applicant define the claimed "dynamic" and "static" blocks in terms of "erase blocks." An "erase block" is a term often used in the art of flash memory to refer to a block consisting of the smallest number of sectors that are erased together in one erase operation.

Conclusion

6. Any inquiry concerning this communication or earlier communications from the examiner should be directed to Woo H. Choi whose telephone number is (571) 272-4179. The examiner can normally be reached on M-F, 9:00-5:30.

If attempts to reach the examiner by telephone are unsuccessful, the examiner's supervisor, Reginald Bragdon can be reached on (571) 272-4204. The fax phone number for the organization where this application or proceeding is assigned is 571-273-8300.

Information regarding the status of an application may be obtained from the Patent Application Information Retrieval (PAIR) system. Status information for published applications may be obtained from either Private PAIR or Public PAIR. Status information for unpublished applications is available through Private PAIR only. For more information about the PAIR system, see <http://pair-direct.uspto.gov>. Should you have questions on access to the Private PAIR system, contact the Electronic Business Center (EBC) at 866-217-9197 (toll-free).



Woo H. Choi
January 5, 2007